# **Unit 12 | Assignment - Web Visualization Dashboard (Latitude)**

## **Watch this video and go over this code**

**This leads up to bootstrap. you would primarily use the files from the second video for your hw. But it’s good to go through this video to understand what it’s like to manually do things without bootstrap**

**Video Review on floating, making columns in html/css (without bootstrap):**

<https://codingbootcamp.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=ab9423cc-84ad-4379-8635-aea1db799a1c>

Files

<https://drive.google.com/open?id=0Bz0Wzew04n0uczBPYzJyWmRaQkU>

<https://drive.google.com/open?id=0Bz0Wzew04n0uR0F1T05ILTNuRmM>

**These are the files you’d use for your hw, but you should go through the above video and files beforehand to understand the beauty of bootstrap**

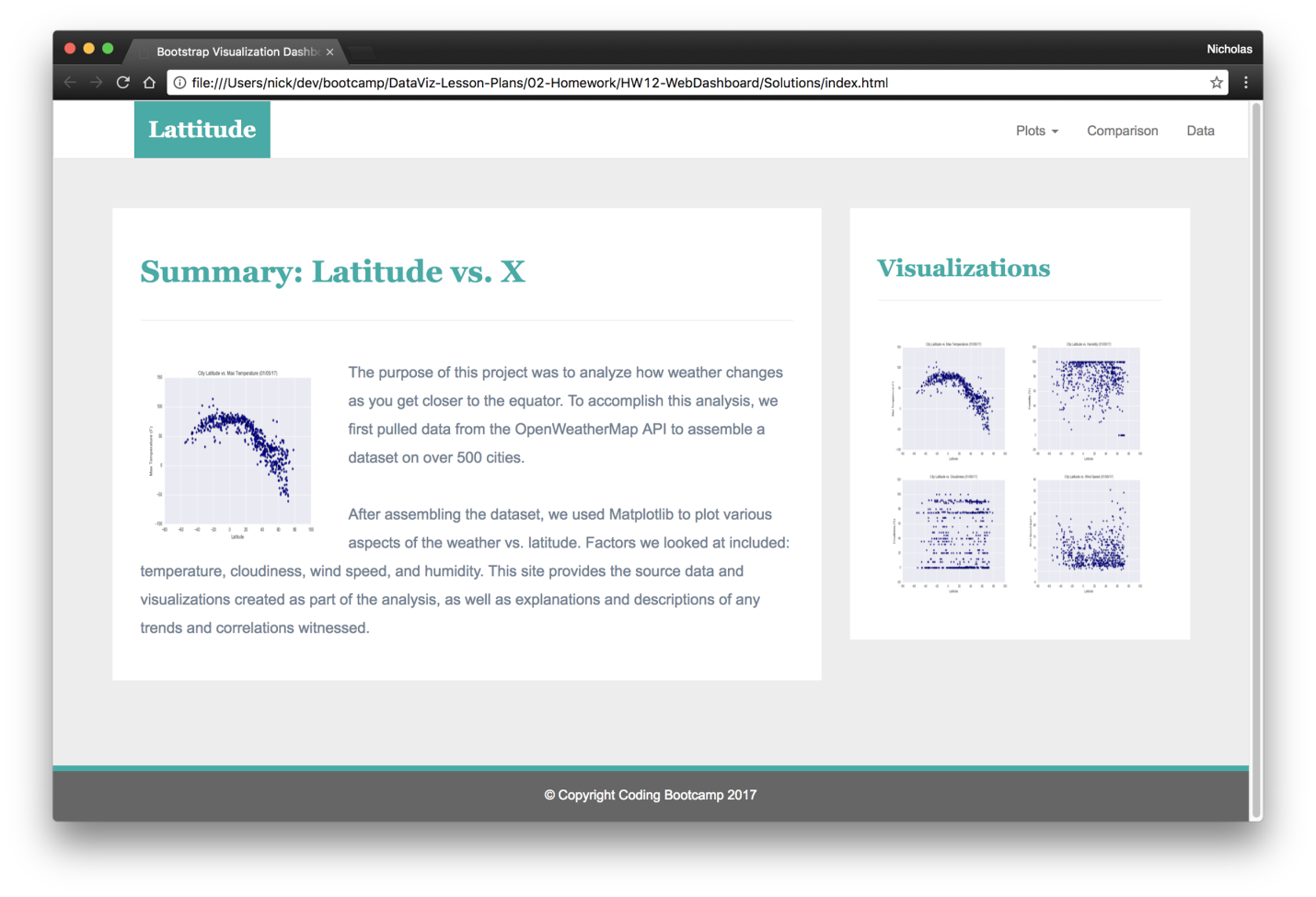
**Video Review on Bootstrap:**

<https://codingbootcamp.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=0d58a703-a552-4346-8e8f-af015c89666d>

Files <https://drive.google.com/open?id=0Bz0Wzew04n0uT2wzMnVXUmR3M2M>

## **Background**

Data is more powerful when we share it with others! Let's take what we've learned about HTML and CSS to create a dashboard showing off the analysis we've done.



## **Latitude - Latitude Analysis Dashboard with Attitude**

For this homework we'll be creating a visualization dashboard website using visualizations we've created in a past assignment. Specifically, we'll be using the data from HW06.

In building this dashboard, we'll create individual pages for each plot and a means by which we can navigate between them. These pages will contain the visualizations and their corresponding explanations. We'll also have a landing page, a page where we can see a comparison of all of the plots, and another page where we can view the data used to build them.

### **Website Requirements**

For reference, see the ["Screenshots" section](#_egzf93sj9bid) below.

The website must consist of 7 pages total, including:

* A [landing page](#_q64d9paor7vr) containing:
  + An explanation of the project.
  + Links to each visualizations page.
* Four [visualization pages](#_x5pp4yk7yfhx), each with:
  + A descriptive title and heading tag.
  + The plot/visualization itself for the selected comparison.
  + A paragraph describing the plot and its significance.
* A ["Comparisons" page](#_uwepvvzcr32h) that:
  + Contains all of the visualizations on the same page so we can easily visually compare them.
  + Uses a bootstrap grid for the visualizations.
    - The grid must be two visualizations across on screens medium and larger, and 1 across on extra-small and small screens.
* A ["Data" page](#_428dajc97iwh)” that:
  + Displays a responsive table containing the data used in the visualizations.
    - The table must be a bootstrap table component.
    - The data must come from exporting the .csv file as HTML, or converting it to HTML. You may use a csv-to-html table conversion tool, e.g. [ConvertCSV](http://www.convertcsv.com/csv-to-html.htm).

The website must, at the top of every page, have a navigation menu that:

* Has the name of the site on the left of the nav which allows users to return to the landing page from any page.
* Contains a dropdown on the right of the navbar named "Plots" which provides links to each individual visualization page.
* Provides two more links on the right: "Comparisons" which links to the comparisons page, and "Data" which links to the data page.
* Is responsive (using media queries). The nav must have similar behavior as the screenshots ["Navigation Menu" section](#_qia98ghzumfj) (notice the background color change).

Finally, the website must be deployed to github pages.

When finished, submit to BootcampSpot the links to 1) the deployed app and 2) the github repository.

### **Considerations**

* You may use the data from HW06 or choose another dataset. Alternatively, you may use the included [cities dataset](https://drive.google.com/open?id=0Bz0Wzew04n0uM2hvRzdaN2hVeWc) and pull the images from the [included notebook](https://drive.google.com/open?id=0Bz0Wzew04n0uM2hvRzdaN2hVeWc).
* You must use bootstrap. This includes using the bootstrap navbar component for the header on every page, the bootstrap table component for the data page, and the bootstrap grid for responsiveness on the comparison page.
* You must deploy your website to github pages, with the website working on a live, publicly accessible URL as a result.
* Be sure to use a CSS media query for the navigation menu.
* Be sure your website works at all window widths/sizes.
* Feel free to take some liberty in the visual aspects, but keep the core functionality the same.

### **Bonuses**

* Use a different dataset! The requirements above still hold, but make it your own.
* Use a bootstrap theme to customize your website. You may use a tool like [Bootswatch](https://bootswatch.com/). Make it look snazzy, give it some attitude. If using this, be sure you also meet all of the requirements listed above.
* Add extra visualizations! The more comparisons the better, right?
* Use meaningful glyphicons next to links in the header.
* Have visualization navigation on every visualizations page with an active state. See the screenshots below.

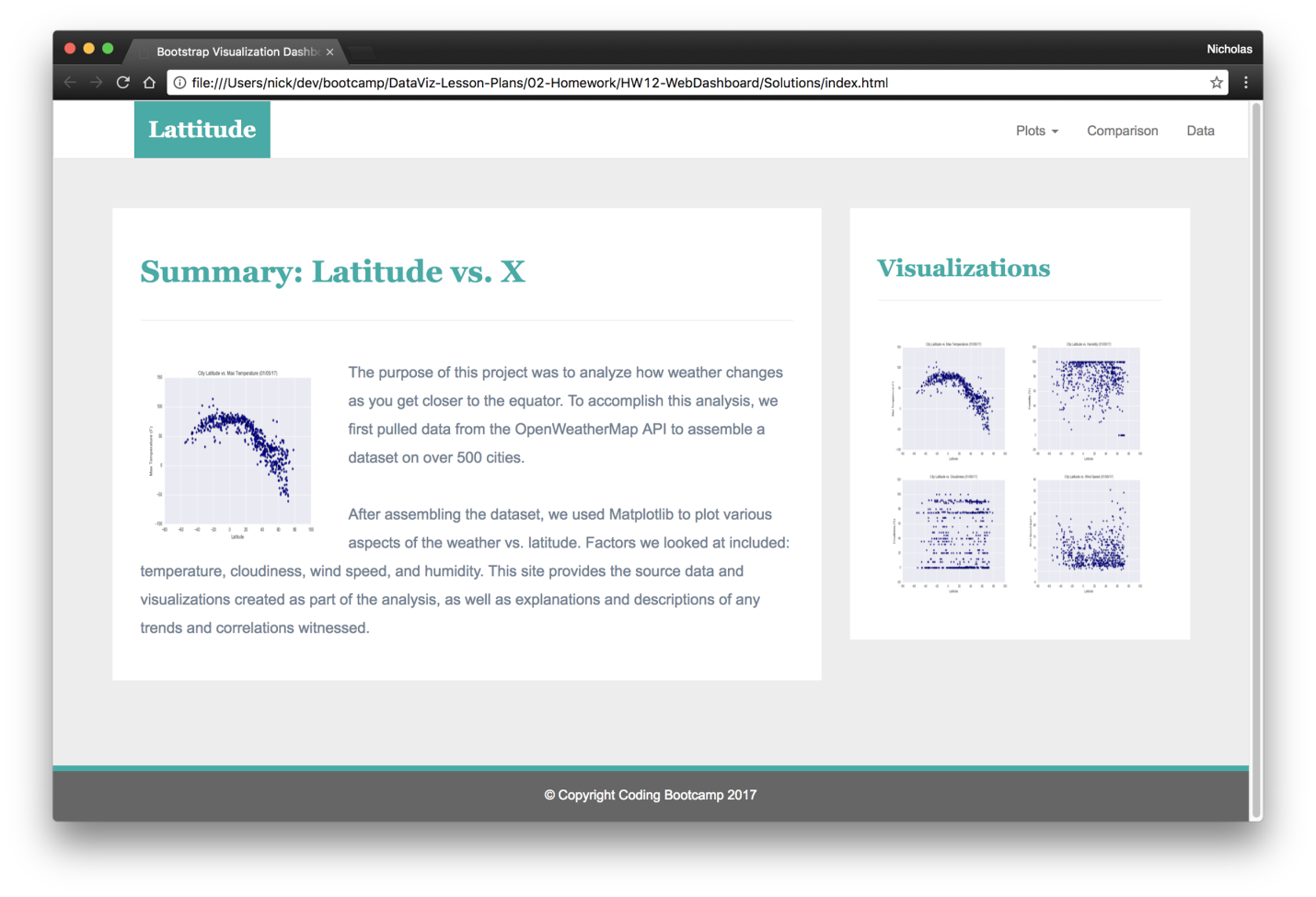
### **Downloads and Links (added by chrisg)**

* <http://learnlayout.com/no-layout.html>
* <https://jquery.com/download/> to download "Download the uncompressed, development jQuery 3.2.1"
* [http://getbootstrap.com/docs/3.3/getting-started/#download](http://getbootstrap.com/docs/3.3/getting-started/%23download)
* Added these lines between the <head> tags to all pages with a navbar:
* <!-- bootstrapcdn stylesheet -->
* <link type="text/css" rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
* <http://www.convertcsv.com/csv-to-html.htm>
* **Here is some documentation that describes how to remove API keys from GitHub.**
* <https://gist.github.com/derzorngottes/3b57edc1f996dddcab25>
* <https://burst.shopify.com/>
* <https://unsplash.com/>
* [https://html5up.net/](https://html5up.net/%20)
* <http://www.boilrplate.com/language/bootstrap>
* <https://www.khanacademy.org/computing/computer-programming/html-css>
* <https://www.w3schools.com/html/html_entities.asp>

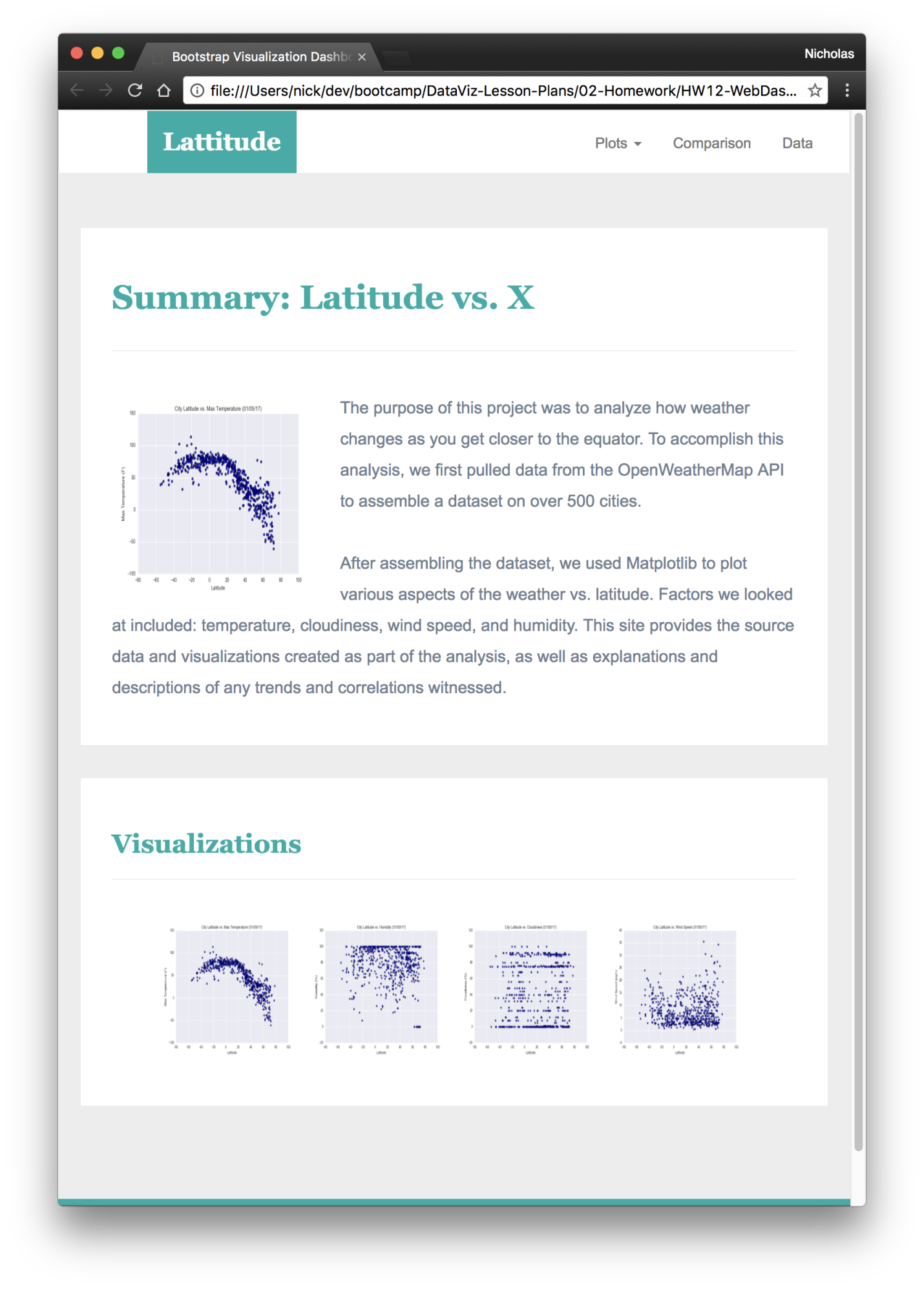
### **Screenshots**

This section contains screenshots of each page that must be built, at varying screen widths. These are a guide; you can meet the requirements without having the pages look exactly like the below images.

#### **Landing page**

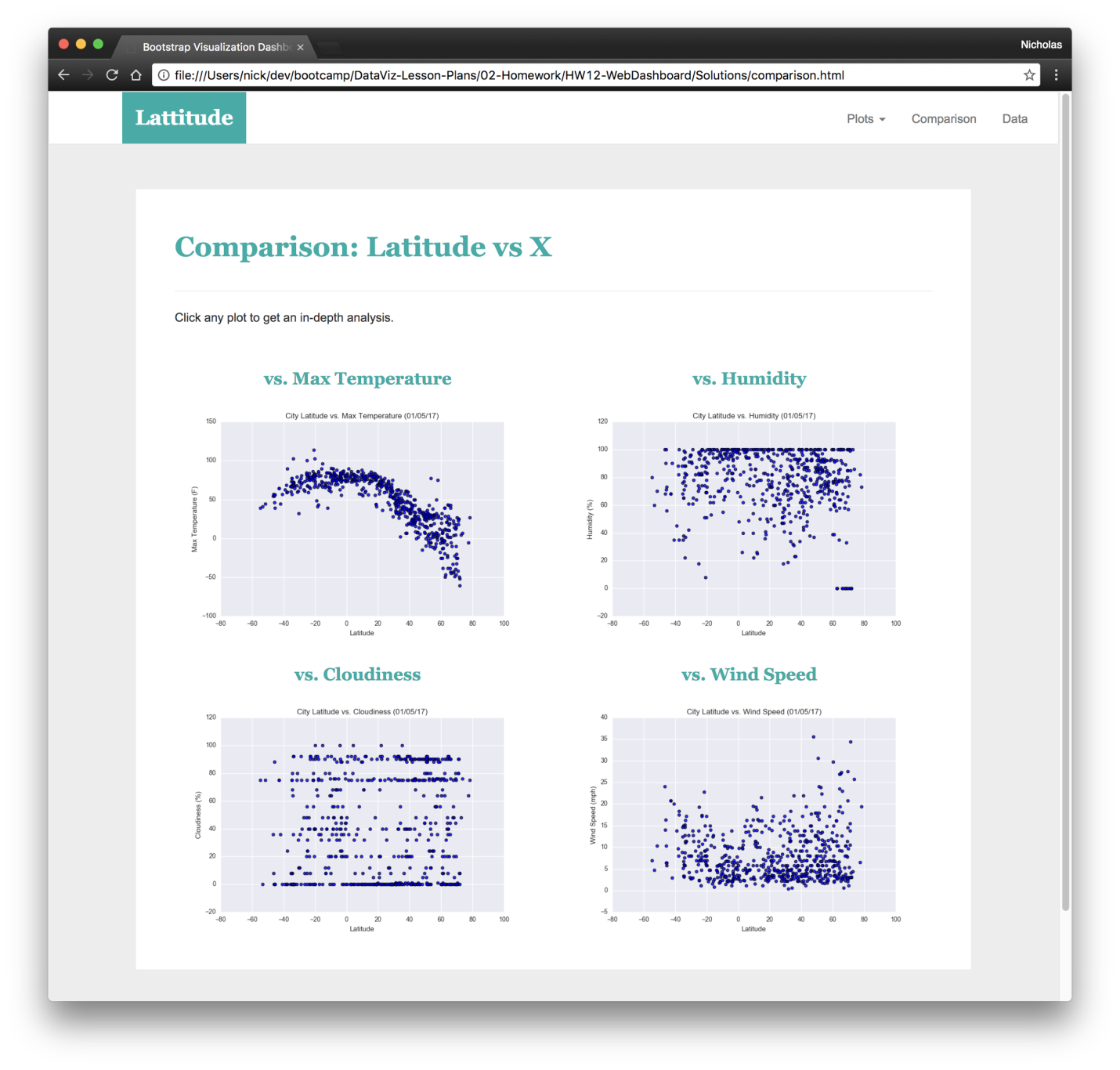
Large screen: 

Small screen:

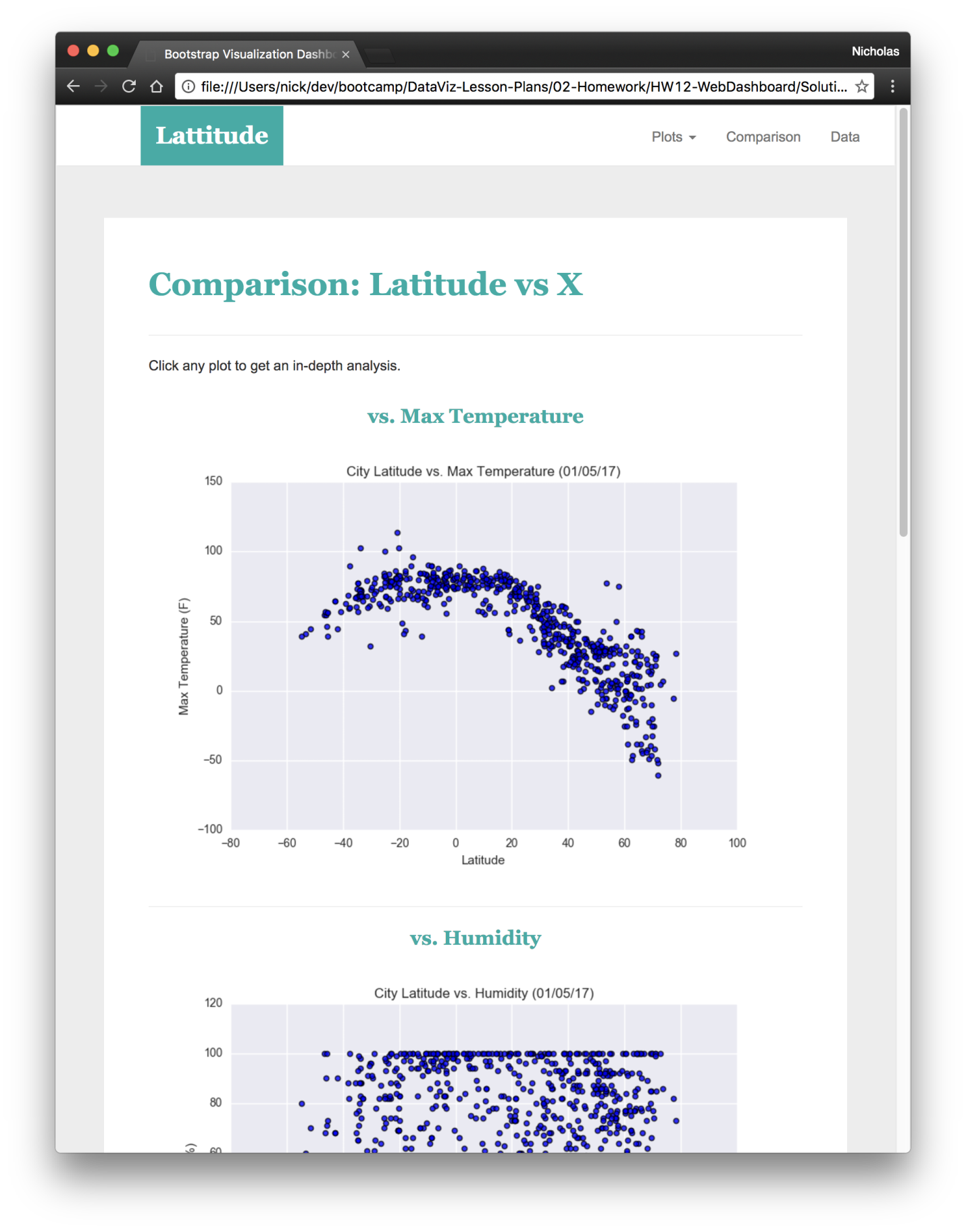


#### **Comparisons page**

Large screen:

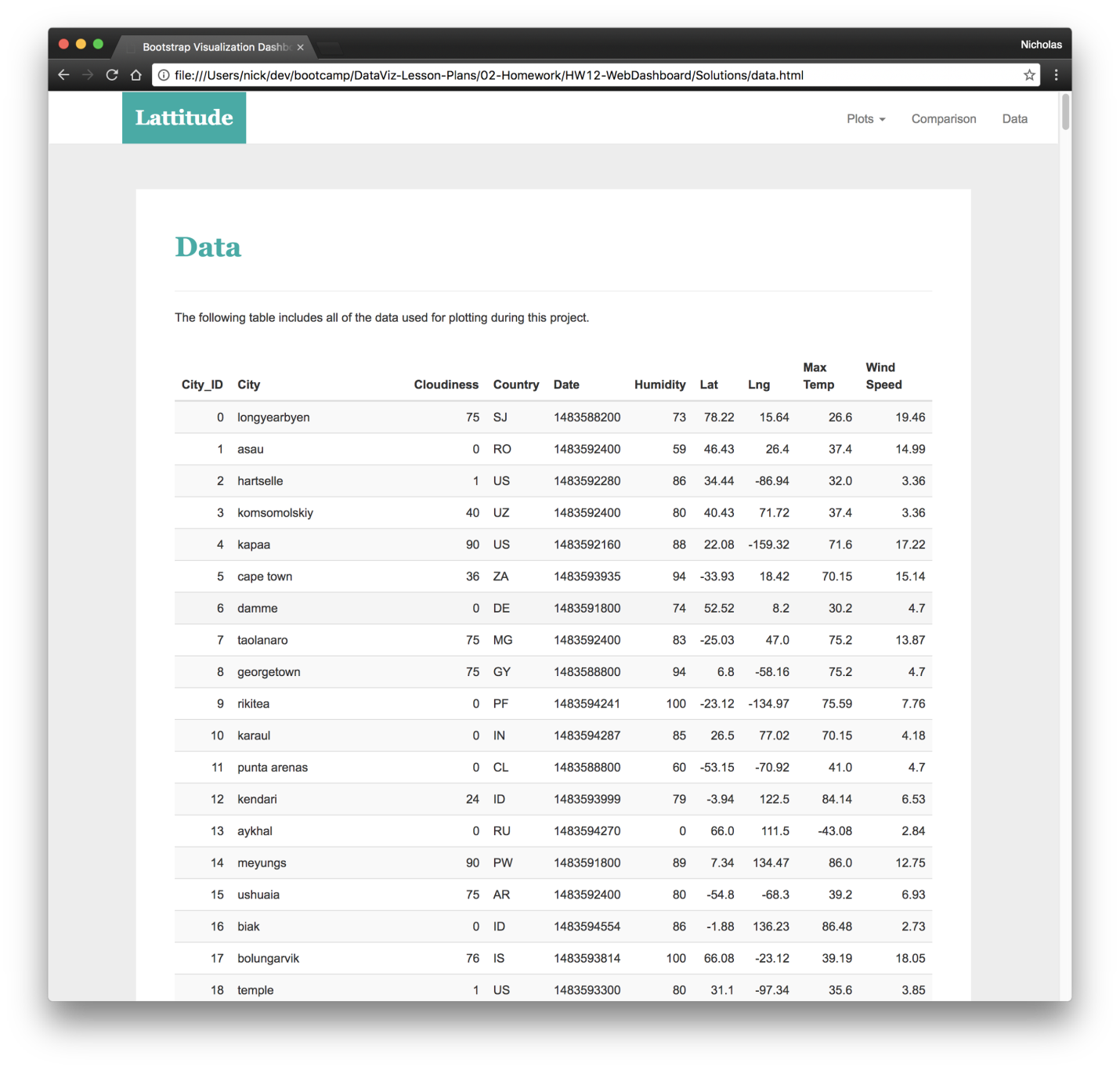


Small screen:

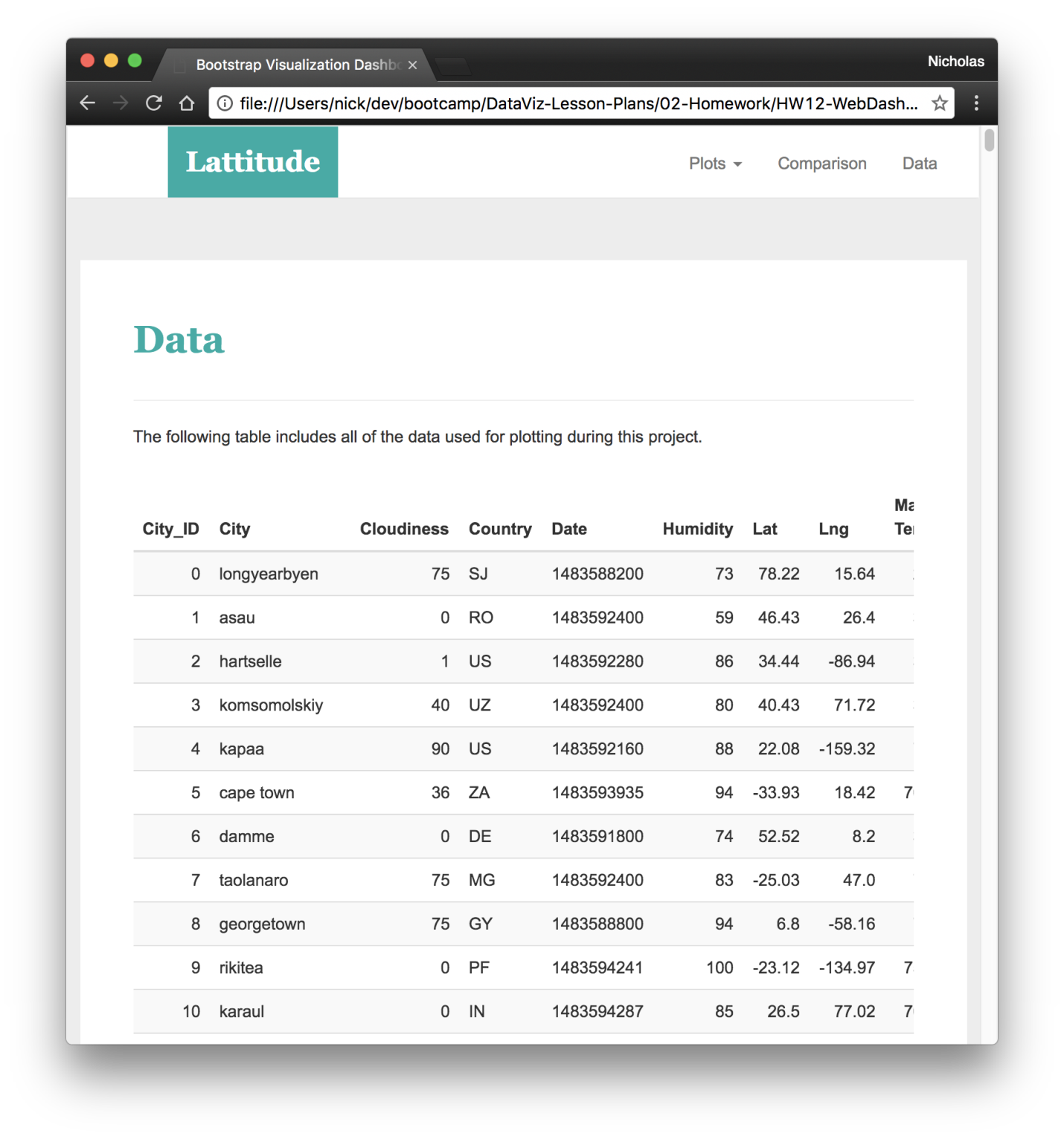


#### **Data page**

Large screen:



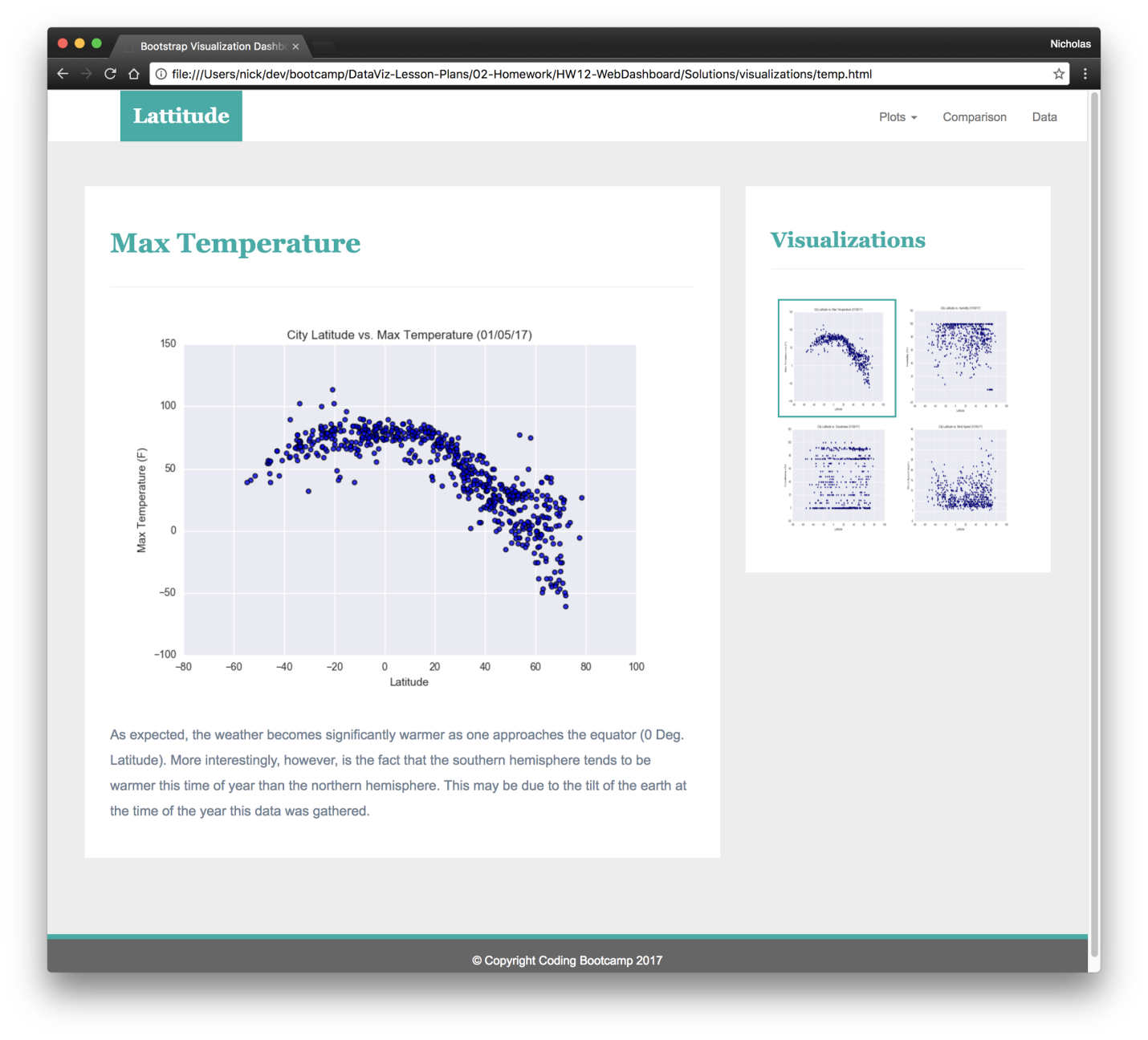
Small screen:



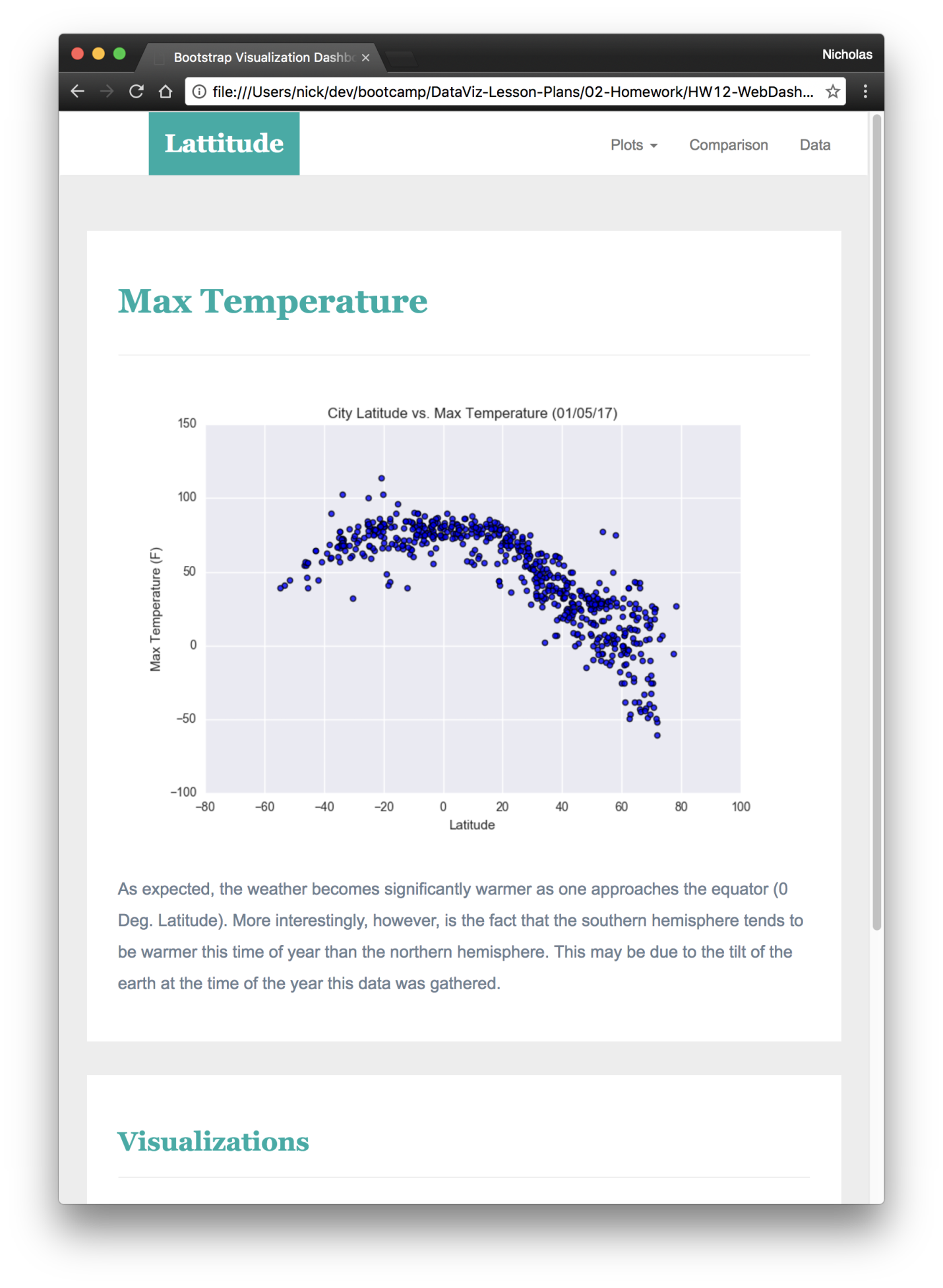
#### **Visualization pages**

You'll build four of these, one for each visualization. Here's an example of one:

Large screen:

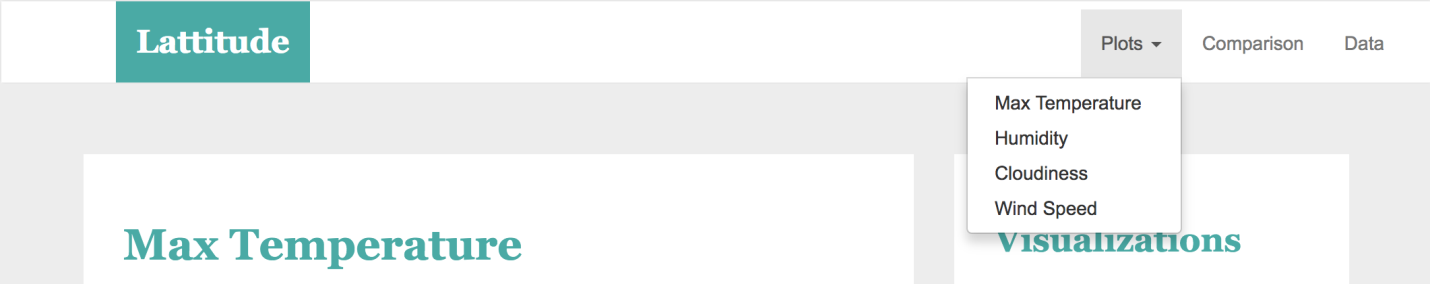


Small screen:



#### **Navigation menu**

Large screen:



Small screen:

